Growing Herbs

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Herb or `erb?

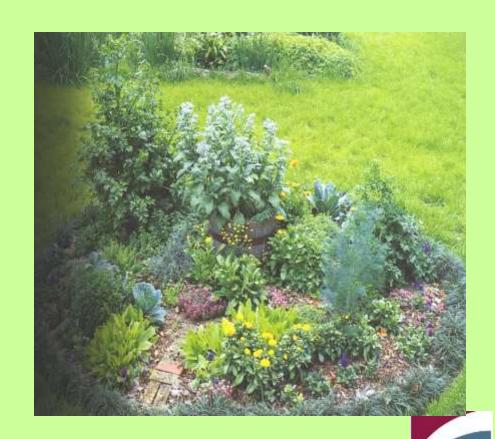
- Controversy
- Comes from Latin herba.
- Oxford dictionary h was pronounced.
- Dropped in late Latin and romance languages.
- English picked it back up again.
- Americans dropped the H.
- Doesn't matter! Either is correct.





What is an Herb?

- An herbaceous plant that displays one or more of the following characteristics:
- Grown for food.
- Used for fragrance or decoration.
- To dye plants.
- Medicinally.
- Any plant cultivated or harvested for an interesting or unusual quality.



Virginia Cooperative Extension

Virginia State University

Why Grow Herbs

- Look and smell the same as they did ages ago.
- Much allure is antiquity.
- Comfort in the old things.
- Sensory experience.
- Visual appeal.
- Fragrances and flavors are pleasurable.
- Yields textures and sounds.
- Outgrowth of fascination with good food and how to prepare.
- Desire to decorate and scent home.
- Wish to dye plants.
- To heal common ailments.







Herbs in Eastern Virginia

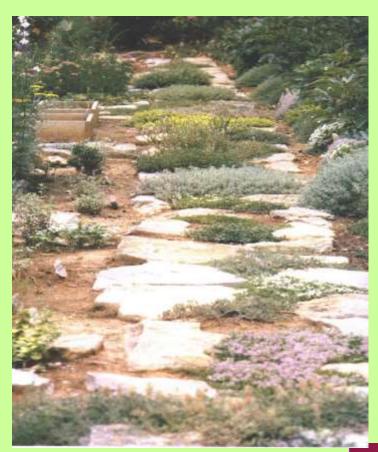
- Challenging!
- Wide fluctuations in temperature.70's to 20's at night.
- Winter months- with ice and winds- harsh.
- Summer rains and humidity. Need to treat some as annuals.





Growing Herbs

- · Mediterranean area.
- Rocky soil hot dry conditions.
- Tolerate total neglect.
- Can grow here despite high humidity.
- Planted after last frost date in spring.





Location

- Full sun-4-5 hours a day.
- Water drains well in area.
 No standing water.
- One requirement for all herbs- good drainage.
- Herbs DO NOT like wet feet.
- Raised beds are a good solution.
- Allow plenty of space for herbs mature size.





Virginia Cooperative

Soil

- Good preparation is vital.
- Prepare the area thoroughly.
- Soil test.
- pH of 6.3-7.0.
- Dig soil to a depth of 12".
- Eastern Exposure
- Incorporate lime, coarse builder's sand, aged manure, peat moss and compost.







Planting

- Lift plant out of pot, spread out roots before putting in the ground.
- Place plant into soil.
- Cover well and water until water no longer drains.
- Add a little compost or organic fertilizer. fish emulsion Mulch plants.
- Don't over crowd plants.





Watering

- Unnecessary if regular rains.
- Drought- or extremely hot temperatureswater every 4-5 days.
- Do not over water!
- Susceptible to root rot.





Fertilizing

- Do not need much.
- If soil in not good quality, may need to fertilize or add compost.
- Slow release fertilizer





Mulching

- Very important to hold in moisture in the summer.
- Protects herbs from temp. fluctuations in winter.
- Grass clippings- pine straw.
- Sand or gravel for gray leafed herbs.
- Heat radiating up from sand keep underside of the plant hot and dry.





Pruning

- Pinch, prune and harvest.
- Meant to be used.
- Keep flowers pinched off.
- Keeps herbs healthy and bush.
- Don't prune more that 1/3 of herb a year.
- Use pinched herbs in crafts and cooking.







Insects

- Rarely seen on outdoor plants.
- Spittlebugs on Rosemary.
- Use strong spray of water.
- Insecticidal soap.





Growing Herbs in Containers

- More maintenance that in the ground.
- Just as satisfying.
- Can come in in the winter.





- Containers- deep enough for plant roots and have drainage holes.
- Grow fast- check for repotting.
- Clay better that plastic or ceramic.





- Soil -Well drained and porous. Crushed oyster shells.
- Mix of loam, sand, lime, peat. etc.
- Planting water before.
 Clean container.
- Place gravel in bottom
- Loosen plant from old pot gently and place in container, fill with soil.
- Leave room on top for water.





- Watering- more that in ground. Dries out quicker.
- Water thoroughly until saturated and water runs through drainage holes. Less in winter.
- Fertilizer- More often because of water leaching.
- Weak time release fertilizer.





- Sun- outside- at least half days sun-
- Winter -if inside south facing window.
- Artificial lights.





- Insects- outside- rare
- When bringing them in spray with water- strong spray- insecticidal soap.
- Scale, spider mites, whitefly.
- Mealybugs- rubbing alcohol.
- Spray up to harvest but wash well!!
- Allow plenty of air circulation inside. Add extra humidity.





Propagation

- Division-chives, oregano, yarrow, mints
- Stem Cuttings-Rosemary, Oregano
- Salvia varieties, Lemon verbena Wormwood, Scented Geraniums, Santolina, Thyme varieties, Marjoram French tarragon
- Seeds- basil, dill
- Layering



A Few Hints

- Plant close to house
- Plant close to water source if containers
- Plant next to walkways to rub against.





Basil

- Annual 12-36" tall sun
- Sweet,
- African Blue (not culinary)
- Cinnamon
- Mrs. Burns Lemon
- Red rubin
- Green pepper basil
- Pinch back 1/3





Bay Laurel

- Laurus nobilis
- Noble herb
- Garlands to adore poets.
- 25ft tall.
- Protect from winter winds.





Borage

- Borage officinalis
- Annual to 3ft.
- Star shaped blue flowers-edible.
 Courage-
- Makes one merry!
- Use in place of cucumbers.

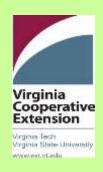




Catnip (mint)

- Perennial 3 ft tall.
 Grey-green leavesblue flowers
- · Cats love it.





Chervil

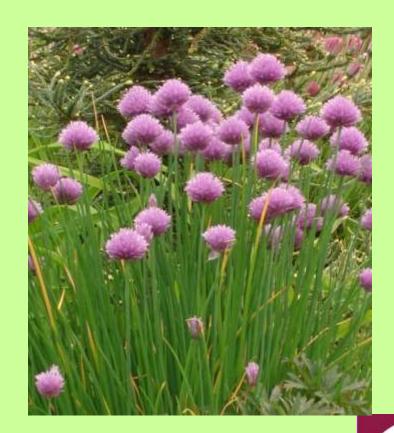
- Cold weather herbdies back in summer
- Garnishes, salads
- Similar tasting to parsley or aniseed.





Chives

- Garlic and onion
- Flower heads are edible.
- dressings





Coriander/ Cilantro

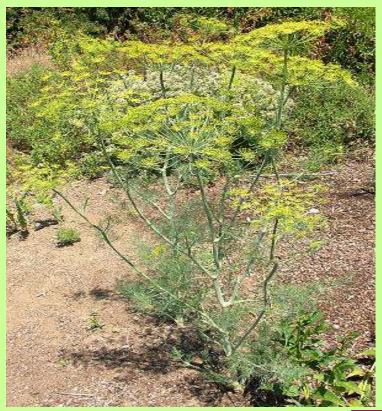
- Cold weather herbsee it in the spring and fall- dies back in summer.
- Seeds-coriander
- Leaves cilantrosalsas





Dill

- Cold weather herbsee it in the spring and fall- dies back in summer.
- Easy to seed and spread quickly.
- Will reseed readily.





Fennel

- Foeniculum vulgare
- Green, bronze
- Butterfly larvae





Lavender

- Lavendins- cross between French and English better for tidewater.
- Heartier
- Dutch
- Provence
- Grosso
- Fat spike
- Seal





Virginia

Lemon Balm

- Variegated and green forms
- mint family
- may need to be contained...





Lemon Verbena

- Best lemony taste
- Many uses-
- 4-5 ft tall.
- May not winter over.





Lovage

- hardy perennial
- resemble those of celery. The leaves are stronger tasting, but sweeter than celery.
- propagated from seed planted in late summer.
- leaves and stems give a celery flavor to soups and salads..





Marjoram

- Origanum majorana
- Same genus as oregano.
- Not as hardy.
- · Milder flavor.





Marvelous Mints

- Menta species
- Peppermint
- Orange mint
- Kentucky colonel spearmint
- Red stem Apple mint (true Menta gracilis)
- Pineapple





Oregano

- Greek mountain (sp.hirtum)
- Italian oregano
- herranhausen





Parsley

- Flat leaf Italian
- Curly
- Larvae food source





Rosemary

- Rosmarinus officinalis
- Hill Hardy
- Arp
- Salem
- Mrs. Reed's dark blue
- Severn Seas
- Miss jessup
- Nancy Howard
- Tuscan blue





Sage

- Salvia officinalis
- Common
- Berggarten
- Purple
- Golden
- Tricolor
- Pineapple







Salad Burnett

- Perennial
- leaves taste much like cucumber.
- Can be used whole in salads or chopped into soups and other dishes.





Savory

- Satureja species
- Summer (annual)
- Winter (perennial)
- To 2 ft tall.
- Bold and peppery flavor





Scented Pelargoniums

- Geraniums
- Frensham's lemon
- apple
- Coconut
- Attar of roses
- Mabel grey(lemon)
- Old fashioned rose
- Peppermint
- Chocolate
- Atomic snowflake





Tarragon

- Tagetes lucida Mexican mint marigold
- Too humid for *Artemisia dracunculus* var. sativa
- French tarragon



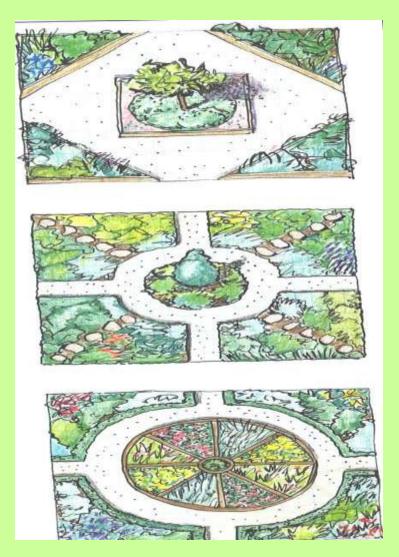


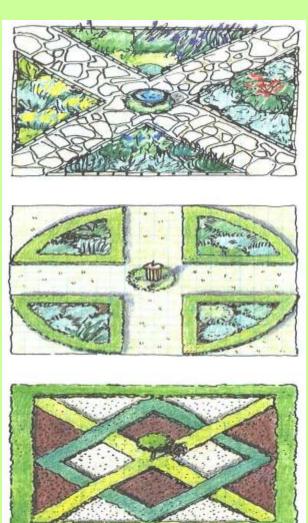
Thyme

- French
- Provencal
- Lemon (green and variegated)
- English
- Oregano
- Orange balsam
- Wooly- (not culinary)











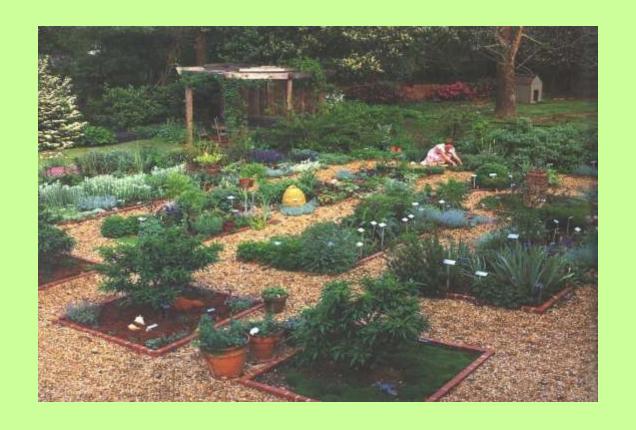
Formal layouts







formal





informal

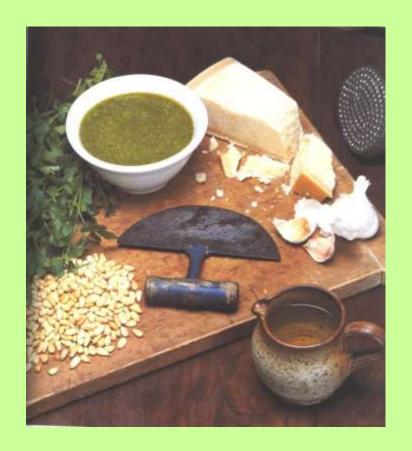






Themes

- Kitchen/Culinary
- Fragrant
- Medicinal
- Drying
- Crafts
- Dye garden





Harvesting Herbs



- When- Cut on dry day- sunny morning after the dew has burned off of the leaves but before the sun gets too hot.
- Use herbs that are just starting to bud-before flowering.
- How- Leave most of the stem on when cutting herbs and remove tough leaves growing lower than 6 inches on the stalk.



Harvesting Herbs

- Should be from tender flavorful leaves from upper 6 inches of stalk or newer growth. Take off blossom heads.
- Why- These leaves have the most oil, which gives the aroma and flavor.





How to Harvest

- Use a sharp knife or scissors to cut large stems or branches from mature plants.
- Shake to remove any critters... examine leaves and remove any old, damaged, bruised or diseased leaves.
- Rinse branches (if dirty) in cold water, drain and blot dry with a paper towels or a single layer of cheesecloth.
- Turn branches upside down and remove leaves along stem or dry then remove stem.





Harvesting Herbs

- Herbs grown for foliage- harvest before they flower.
- Seeds-as seed pods change in color from green to brown to gray- before they shatter.
- Roots- in the fall after foliage fades-
- Examples- Chicory, ginseng and goldenseal.







Harvesting Herbs

- Annuals can be harvested until frost.
- Perennial herbs until late August.
- Harvest tarragon or lavender flowers in early summer then shear to half its height for second blooming in fall.





Different Methods of Drying

- Air-dried. Easiest and most inexpensive.
- Herbs are tied in bunches (5-6 stems) with string or with elastics and hung upside down in a well ventilated, dust free place to dry.
- Keep out of the sun.





Air Drying Herbs

- Place in dry SHADY place until the leaves are so dry that they crumble when handled.
- Herbs dried in the shade have better color and flavor that sun dried herbs.
- Sun will bleach color, smell and flavor from the herbs.





Air Drying Herbs

- Check weekly –should be brittle enough to break between fingers.
- Check after one week, then weekly....
- Herbs suited for air dryingsturdy- sage, thyme, summer savory, dill, bay leaves, oregano, rosemary, parsley and marjoram.





Drying Racks

Trays or shelves to lay herbs out flat...

Spread stems out and turn daily to allow to

dry properly.

 Can use screens, between sheets of newspaper or muslin.

- Keep out of direct sunlight.
- Herbs to shelf dry (higher moisture content)-basil, tarragon, lemon balm,
- mints mold if not dried quickly...





Different Methods of Drying

- Dehydrators- useful if drying large quantities of herbs or high moisture herbs such as basil.
- Follow directions with dehydrator.
- Microwave Ovens -last resort!!!
- Can dry small batches.
- Place 4 or 5 herbs stalks with leaves between paper towels.
- Microwave on high for 1 minute.
- Check herbs for dryness.
- Repeat if needed.
- Cook herbs- not much oils left...





Oven Drying

- Works better for some herbs in areas with high humidity.
- Place on cookie sheet without allowing leaves to touch and place in a warm oven until herbs are light and brittle.
- Ideal oven temperatures -110 degree-130 degrees.





Drying Roots

- Some need to be peeled first.
- Examples- Licorice, horseradish and marshmallow root.
- Dandelion and angelica need skin on.
- Cut roots into ½ inch slices and lay in racks or screens.
- Takes much longer to dry out- 5-6 weeks.
- · Check often.
- When slices are light and brittle ready for storage.
- Place in airtight tin or glass jars.







Drying Lavender

- Pick flower heads when closed and the top florets have just burst.
- Contains the highest concentration of oils.
- Spread the complete head on a tray to dry. Turn head often to make sure all parts are dry.
- Or bunch and hang upside down.
- Strip the separate flower heads from the stems – dry to use for pot-pourri.





Freezing Herbs

- Can be place inside a small freezer bag or airtight container (canning jar) in the freezer. When ready- crumble into recipes.
- Spread out on cookie sheets or jelly roll pan.
 When frozen- pack in air tight containers.
- Place fresh herbs in water in ice cube trays and freeze them.







Freezing Herbs

- Will lose some flavor but ready to use.
- Pop in soups, stews and sauces.
- Not suitable for garnishing- becomes limp when thawed...do not refreeze herbs.
- Chives- great for freezing.
 Parsley, sage, tarragon.







Storing Dried Herbs

- Dry when brittle and crumb easily.
- Store in small airtight containers away from the light.
- Plastic bags or jars.
- Label and date each container.
- Store in cool, dry, dark place.





Storing Dried Herbs

- Can keep for 3-4 years but best if used within a year.
- Flavor diminishes with age.
- To release full flavorcrush whole herb leaves just before adding to recipe.
- Add to soups and stews the last half hour of cooking.





Enjoy your Herbs!

- Go out and plant grow, harvest enjoy your herbs!
- Any Questions????

Thank- You!





Resources

- http://www.herbsociety.org/
- Michigan State University Extension
- http://www.herbsociety.co.uk
- http://solutions.psu.edu/Food_Preparation_Safety_Storage .htm
- Web.extension.uiuc.edu
- www.ces.ncsu.edu
- http://hgic.clemson.edu
- http:/www.urbanext.uiuc.edu
- www.extension.umn.edu

